

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

pin. No: 10/676,654

Applicants: Koji TAKINAMI, et al. Filed: October 1, 2003

Title: VOLTAGE CONTROLLED OSCILLATOR, RADIO COMMUNICATION

APPARATUS AND VOLTAGE-CONTROLLED OSCILLATION METHOD FOR REDUCING DEGRADATION OF PHASE NOISE

CHARACTERISTIC (AS AMENDED)

TC/A.U.: 2817

Examiner: Joseph Chang

Confirmation No.: 8959

Docket No.: MTS-3475US

## **INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO/SB/08a and PTO/SB/08b form submitted herewith. A copy of the references listed on the PTO/SB/08a and PTO/SB/08b form, other than U.S. patents, is enclosed.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

MTS-3475US PATENT

This Information Disclosure Statement is being filed concurrently with a Request for Continued Examination under 37 CFR 1.114.

Respectfully submitted

Lawrence E. Asbery, Reg. No. 34 515 Attorney for Applicants

LEA/ds

Enclosures: PTO/SB/08a and b

(2) References

Dated: January 3, 2007

P.O. Box 980 Valley Forge, PA 19482-0980 (610) 407-0700

The Director is hereby authorized to charge or credit Deposit Account No. 18-0350 for any additional fees, or any underpayment or credit for overpayment in connection herewith.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

January 3, 2007

Deborah Spratt Debord Spratt

ds/98016



## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

SHEET 1 of 2

Complete if Known			
Application Number	10/676,654		
Filing Date	October 1, 2003		
First Named Inventor	Koji Takinami et al.		
Art Unit	2817		
Examiner Name	Joseph Chang		
Attorney Docket No.	MTS-3475US		

			U.S. PATENT D	OCUMENTS	
Examiner Initials*	Cite No.1	Document Number  Number - Kind Code <sup>2 (if known)</sup>	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
		US-6,995,626 B2	02-07-2006	OEHM ET AL.	i igares Appear
	-	US-			
		US-			
		US-			
-		US-			
	<u> </u>	US-			
		US-	· · · · · · · · · · · · · · · · · · ·		
		US-			
		US-			
		US-			
	ļ	US-			
	l	US-	l		

FOREIGN PATENT DOCUMENTS						
	<b></b>	Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines, Where Relevant	
Examiner Initials*	Cite No. <sup>1</sup>	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5 (If known)</sup>	Publication Date (MM-DD-YYYY)	Applicant of Cited Document	Passages or Relevant Figures Appear	Τ <sup>6</sup>
	ļ. <u></u>					
	<u> </u>					

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional).

<sup>2</sup>See Kind Codes of USPTO Patent Documents at <a href="http://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04.

<sup>3</sup>Enter Office that Issued the document, by the two-letter code (WIPO Standard St.3).

<sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>&</sup>lt;sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

<sup>&</sup>lt;sup>3</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

<sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

SHEET 2 of 2

Complete if Known		
Application Number	10/676,654	
Filing Date	October 1, 2003	
First Named Inventor	Koji Takinami et al.	
Art Unit	2817	
Examiner Name	Joseph Chang	
Attorney Docket No.	MTS-3475US	

NON-PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>	
		Jürgen Oehm, Duyen Pham-Stäbner, LINEAR CONTROLLED TEMPERATURE INDEPENDENT VARACTOR CIRCUITRY, ESSCIRC 2000, Session C06-VCO and Resonator Techniques, September 24, 2002, Pages 143-146		
		Pietro Andreani and Sven Mattisson, ON THE USE OF MOS VARACTORS IN RF VCO'S, IEEE Journal of Solid-State Circuits, Vol. 35, No. 6, June, 2000, Pages 905-910		
- 10				
-				
	1		لــــــا	

Examiner	Date	
Signature	Considered	
		·

<sup>1</sup>Applicant's unique citation designation number (optional).

<sup>2</sup>Applicant is to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO the collection is information is required to y 37 CFR 1.98. The information is required to botain or retain a benefit by the public which is to fine (and by the OSP10 to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.